

EPIC 1.15 Demonstrate New Technologies and Strategies that Support Integrated “Customer-to- Market-to-Grid” Operations of the Future

Tom Martin, PG&E

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Original Filing:

EPIC 2012-2014 Project #15 “Demonstrate New Technologies and Strategies That Support Integrated ‘Customer-to-Market-to-Grid’ Operations of the Future”

Renamed:

Grid Ops Situational Intelligence



Data aggregation and visualization that allows us to GO-SEE what is happening on the grid in real-time

Problem to be Addressed:

To efficiently run the grid operations of the future, data from a wide variety of data sources will need to be quickly analyzed and presented to end users

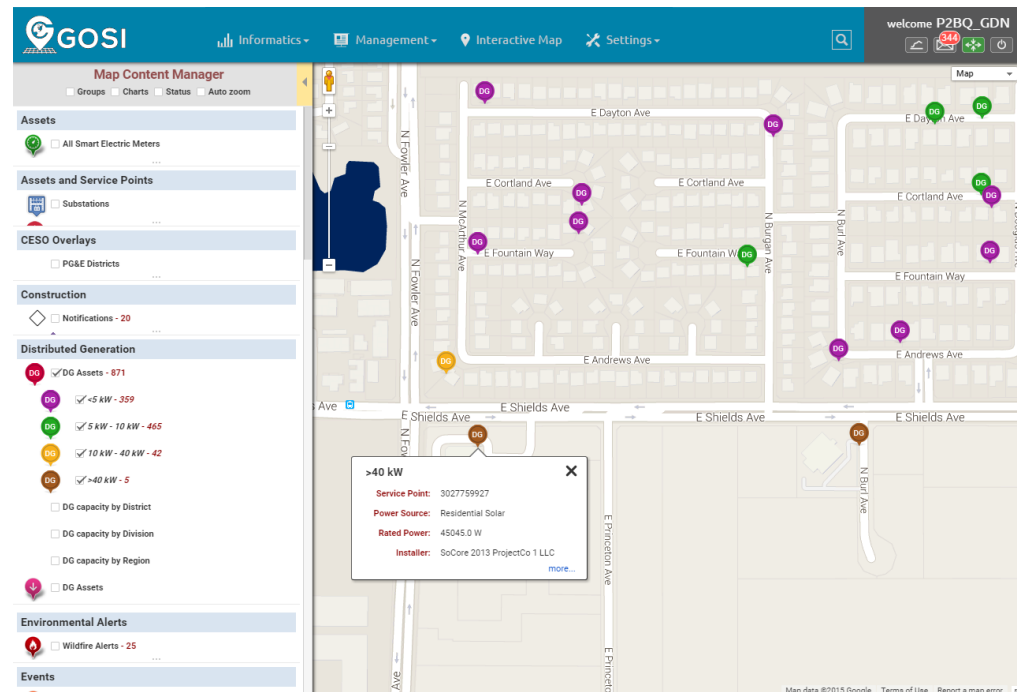
PG&E Data	Customer Data	External Data
Asset Info	Residential Solar	Weather Data
Crew Locations	SmartMeter Load	Earthquakes
Feeder Lines	Customer Outages	Wildfires

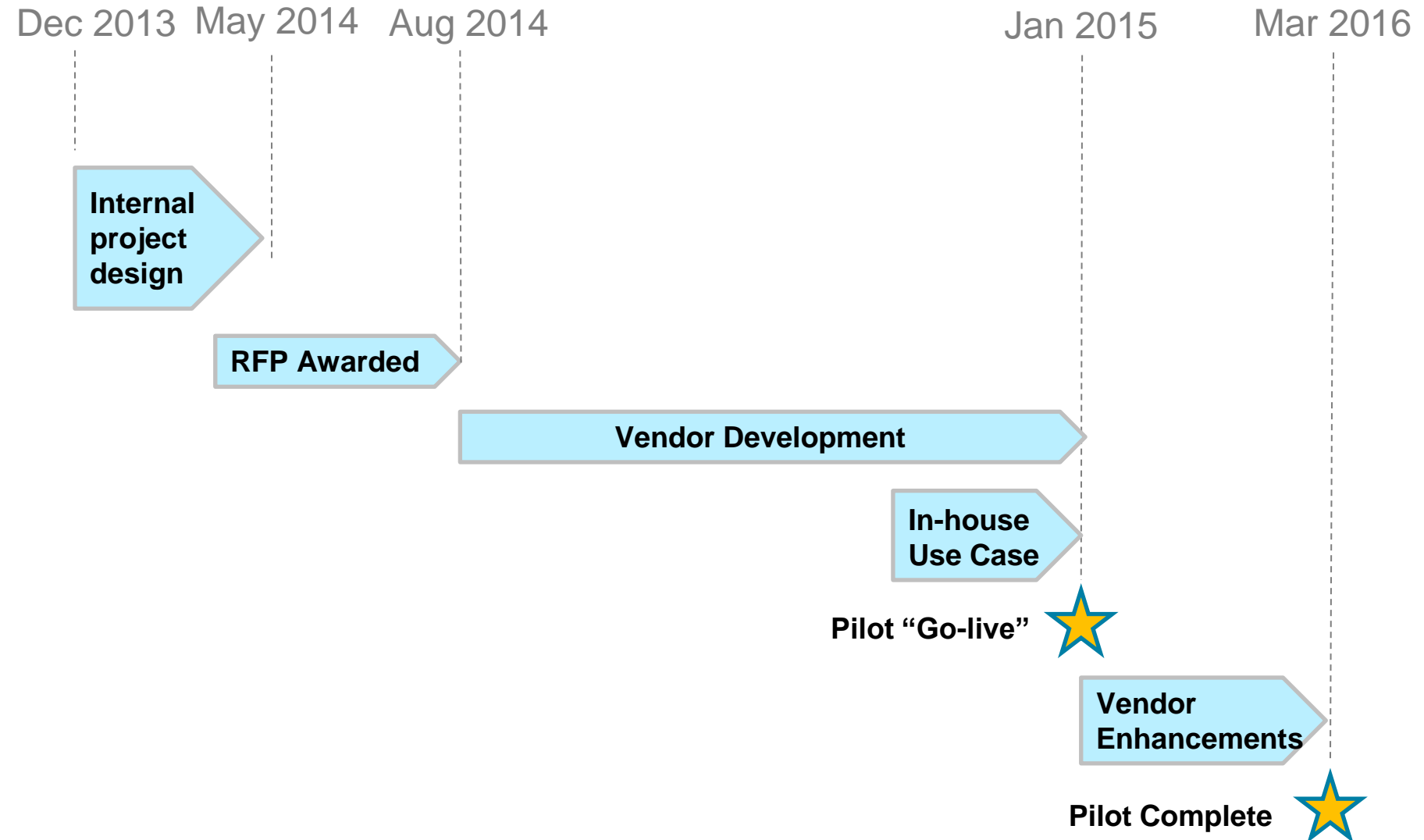
Project Objectives:

- Real-time data visualization platform
- Data integration from multiple sources
- Ability to develop business rules/analytics
- Agile and in-house development capabilities

Pilot Approach

- Test out a platform capable of quickly and easily integrating a wide variety of data sources (internal and external data)
- Use five pilot use cases to test out the various features:
 - Outage Anticipation
 - Distributed Generation (DG) Research
 - Circuit Loading
 - Construction Planning
 - Daily and Emergency Operations Dashboards
- Pilot is testing out the Mix Director platform from Bit Stew





Live demo